INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 1038-13 PCT	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2005/007953	International filing date (day/month/year) 14 March 2005 (14.03.2005)	Priority date (day/month/year) 19 March 2004 (19.03.2004)	
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant RESEARCH FOUNDATION OF TI	HE CITY UNIVERSITY OF NEW YORK		

1.	This international preliminary re International Searching Authorit	port on patentability (Chapter y under Rule 44 bis.1(a).	I) is issued by the International Bureau on behalf of the
2.	This REPORT consists of a total	of 4 sheets, including this co	ver sheet.
	In the attached sheets, any refere to the international preliminary r	ence to the written opinion of t report on patentability (Chapte	the International Searching Authority should be read as a reference or I) instead.
3.	This report contains indications	relating to the following items	:
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under applicability; citations and	Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	•
	Box No. VII	Certain defects in the inter	national application
	Box No. VIII	Certain observations on the	e international application
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designakes an express request unde	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority
			Date of issuance of this report 20 February 2007 (20.02.2007)
	The International Bure 34, chemin des Col 1211 Geneva 20, Sv	ombettes	Authorized officer Masashi Honda
Facsi	mile No. +41 22 338 82 70		e-mail: pt08.pct@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

INTERNA'	TIONAL SEARC	HING AUTHO	ORITY		
	N. FEIT ANN & BARON, ICHO TURNPIK				PCT
	T, NY 11791				VRITTEN OPINION OF THE YONAL SEARCHING AUTHORITY
·					(PCT Rule 43bis.1)
A 1:	·			Date of mailing (day/month/year	
1	's or agent's file r	elerence		FOR FURTHE	R ACTION See paragraph 2 below
1038-13 P	nal application No		International filing date	(day/month higgs)	
PCT/US0		~	14 March 2005 (14.03.2		Priority date (day/month/year)
		ication (IPC) o	r both national classificat		19 March 2004 (19.03.2004)
IPC: USPC:	B05D 5/12(2007 427/128,130				
Applicant					
REASEA	RCH FOUNDATI	ON OF THE	CITY UNIVERSITY OF	NEW	
1. This o	opinion contains in	ndications rela	ting to the following item	s:	
\boxtimes	Box No. I	Basis of the	opinion		•
	Box No. II	Priority			
	Box No. III	Non-establis	- hment of opinion with re	gard to novelty, inv	entive step and industrial applicability
	Box No. IV		y of invention		· · · ·
\boxtimes	Box No. V	Reasoned sta	dement under Rule 43bis, citations and explanation	1(a)(i) with regard as supporting such	to novelty, inventive step or industrial statement
	Box No. VI	Certain docu	ments cited		
	Box No. VII	Certain defec	ets in the international app	lication	
	Box No. VIII	Certain obser	vations on the internation	al application	
o Entro	THER ACTION	AT.			•
If a de Interna Author	emand for interna ational Prelimina rity other than thi	tional preliming ry Examining is one to be th	Authority ("IPEA") exc	cept that this does PEA has notified t	be considered to be a written opinion of the s not apply where the applicant chooses an he International Bureau under Rule 66.1bis(b) ered.
IPEA (a written reply to:	gether, where a	considered to be a writte appropriate, with amenda piration of 22 months fro	ents, before the ex	PEA, the applicant is invited to submit to the spiration of 3 months from the date of mailing whichever expires later
	ther options, see			المنتج السعدية	
3. For fur	ther details, see n	otes to Form P	CT/ISA/220.		
Name and	mailing address o	f the ISA/ US	Date of complete	on of this opinion	Authorized officer
M	ail Stop PCT, Attn:	ISA/US	14 November 20	•	/}
P.	O. Box 1450 lexandria, Virginia 2		14 140 veinber 20	00 (14.11.2000)	Alain L. Bashor Jean Proctor
	lo. (571) 273-320				Telephone No. 5 Paralagal Specialist

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US05/07953

1. With regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.5(d) and 23.1(0)). 2. With regard to any nucleation and/or entire acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of a. type of material a sequence listing b. format of material on paper in electronic form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in electronic form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:	Box N	o. I Basis of this opinion
the international application in the language in which it was filed a trustation of the international application into		
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(e) and 23.1(b)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of a. type of material a sequence listing table(s) related to the sequence listing b. format of material on paper in electronic form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in electronic form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:		
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b. format of material		a sequence listing
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in electronic form c. time of filing/furnishing	ъ.	format of material
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	3.	or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the
	4. Additio	onal comments:
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orm PCT/ISA/237(Box No. 1) (April 2005)	orm PCT/	SA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/07953

1. Statement		
Novelty (N)	Claima 1.26	
140 volty (14)	Claims <u>1-26</u> Claims <u>NONE</u>	Y
	Claurs HOME	N
Inventive step (IS)	Claims 3-12, 16	Y
	Claims 1-2, 13-15, 17-26	
-		
Industrial applicability (IA)	Claims 1-26	YI
	Claims NONE	N
Oite in the state of the state		
. Citations and explanations:		
claims 1-2, 13-15, 17-26 lack an inventive step und	r PCT Article 33(3) as being obvious ove	r Hirsch et al.
here is disclosed providing a plurality of bacterial axterior surfaces that contact the bacterial magnetic	nagnetic nanocrystals each with an outer l nanocrystals (see abstract; paragraphs 000	ayer. Nanotubes having interior and 3-0011).
here is not disclosed the ability to explicitly "absor	" as claimed.	
would have been obvious to one with ordinary ski	in the art to include absorption because I	Timb et al tarakan kan dian
January States	m are at the include absorption because i	insi et al teaches bonding.
laims 3-12 and 16 meet the criteria set out in PCT amitations claimed.	article 33(2)-(3), because the prior art doe	s not teach or fairly suggest the
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laims 1-26 meet the criteria set out in PCT Article	3(4), and thus meet the industrial applical	-
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